

Serial Number 10/721,765

Page 2/6

Amendments to the claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (canceled).
2. (currently amended) ~~The electrical machine of claim 1~~ An electrical machine comprising:
a magnet,
an electrical conductor arranged to form a loop,
a plurality of flux conductors which direct magnetic flux from said magnet through said loop of electrical conductor, wherein a first set of said flux conductors directs said magnetic flux through said loop in a first direction and a second set of said flux conductors directs said magnetic flux through said loop in a second direction,
wherein said flux conductors comprise a plurality of north flux conductors in magnetically conductive contact with a north pole of said magnet and a plurality of south flux conductors in magnetically conductive contact with a south pole of said magnet wherein said north flux conductors and said south flux conductors are spaced from each other to substantially prevent flux leakage between said north flux conductors and said south flux conductors, and
a switch for alternately connecting and disconnecting said first and second sets of flux conductors.
3. (currently amended) The electrical machine of claim 2 wherein said north flux conductors comprise a plurality of flux conductors with upper terminations but no

Serial Number 10/721,765

Page 3/6

lower terminations and a plurality of flux conductors with lower terminations but no upper terminations and wherein said south flux conductors comprise a plurality of flux conductors with upper terminations but no lower terminations and a plurality of flux conductors with lower terminations but no upper terminations and wherein said north and south flux conductors are arranged so that said switch alternately connects an upper termination of a north flux conductor to a lower termination of a south flux conductor and a lower termination of a north flux conductor to an upper termination of a south flux conductor.

4. (original) The electrical machine of claim 2 wherein said north flux conductors and said south flux conductors are mounted in a non-interleaved arrangement.
5. (original) The electrical machine of claim 2 wherein each of said flux conductors comprises a front panel and a back panel with relatively large surface areas and side portions defined in between said front and back panel wherein said side portions have significantly smaller surface area than said front and back panels and wherein the front and back panels of said north flux conductors are in non-juxtaposed relationship to the front and back panels of said south flux conductors.
6. (original) The electrical machine of claim 5 wherein the side portions of said north flux conductors are spaced from the side portions of said flux conductors by a distance sufficient to substantially prevent flux leakage between said north flux conductors and said south flux conductors.
7. (currently amended) The electrical machine of claim 1 wherein an interface between said flux conductors and said switch is formed by a side portion of said switch and terminations of said flux conductors and wherein said interface is serrated.

Serial Number 10/721,765

Page 4/6

8. (original) The electrical machine of claim 7 wherein said interface has a serration angle of approximately 45 degrees.
9. (currently amended) The electrical machine of claim ~~1~~ 2 wherein said flux conductors comprise a termination end that is tapered in a radial direction such that the termination of each flux conductor has a thickness that is less than the thickness of the rest of the body of the flux conductor and wherein said switch is tapered in a radial direction such that a side portion of the switch that is located at the radially innermost extent of said switch has a thickness that is less than the thickness of the rest of the body of the switch.
- 10 - 17. (canceled)